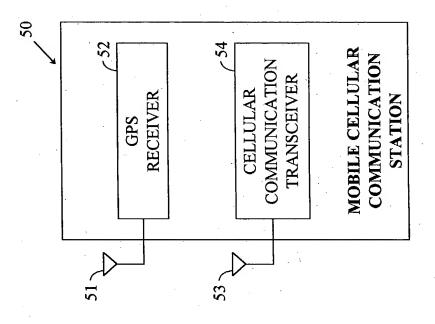


FIG. 1 (PRIOR ART)





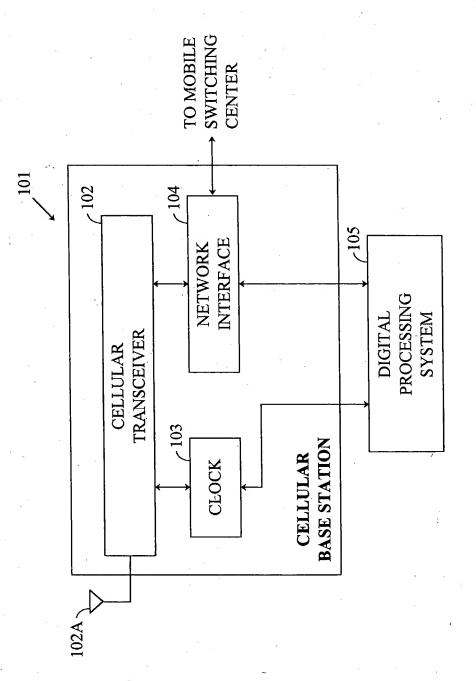


FIG. 3

151

DETERMINE TIME OF DAY AT MOBILE CELLULAR COMMUNICATION STATION

153

DETERMINE PROPOGATION DELAY
BETWEEN MOBILE CELLULAR
COMMUNICATION STATION AND
CELLULAR BASE STATION

- 155

DETERMINE TIME AT CELLULAR BASE STATION FROM TIME OF DAY AT MOBILE (TRANSMITTED FROM MOBILE CELLULAR COMMUNICATION STATION) AND FROM PROPOGATION DELAY

201

CELLULAR BASE STATION TRANSMITS A CELLULAR SIGNAL TO A MOBILE CELLULAR COMMUNICATION STATION (AND OPTIONALLY IN THE SIGNAL REQUESTS SYNCHRONIZATION INFORMATION FROM THE MOBILE STATION); CELLULAR BASE STATION PROVIDES TIME MARKERS IN THE SIGNAL (E.G., FRAME BOUNDARIES IN THE FRAMING STRUCTURE OF THE SIGNAL) BEING SENT TO THE MOBILE STATION

- 203

MOBILE STATION RECEIVES CELLULAR SIGNAL WITH MARKER;
MOBILE STATION ALSO RECEIVES GPS SIGNAL WHICH INCLUDES
GPS TIME; MOBILE STATION TIME TAGS THE MARKER IN THE
CELLULAR SIGNAL WITH GPS TIME (REPRESENTING, IN GPS TIME,
A TIME WHEN THE MARKER WAS RECEIVED AT THE
MOBILE STATION)

-205

MOBILE STATION DETERMINES ITS POSITION CONTEMPORANE-OUSLY WITH TIME TAGGING THE MARKER IN THE CELLULAR SIGNAL (THE GPS RECEIVER IN THE MOBILE STATION MAY DETERMINE ITS POSITION EITHER AUTONOMOUSLY OR WITH THE ASSISTANCE OF A SERVER IN THE CELLULAR NETWORK)

-207

MOBILE STATION TRANSMITS TO THE CELLULAR BASE STATION THE MOBILE'S POSITION AND THE GPS TIME ASSOCIATED WITH THE TIME TAGGED MARKER

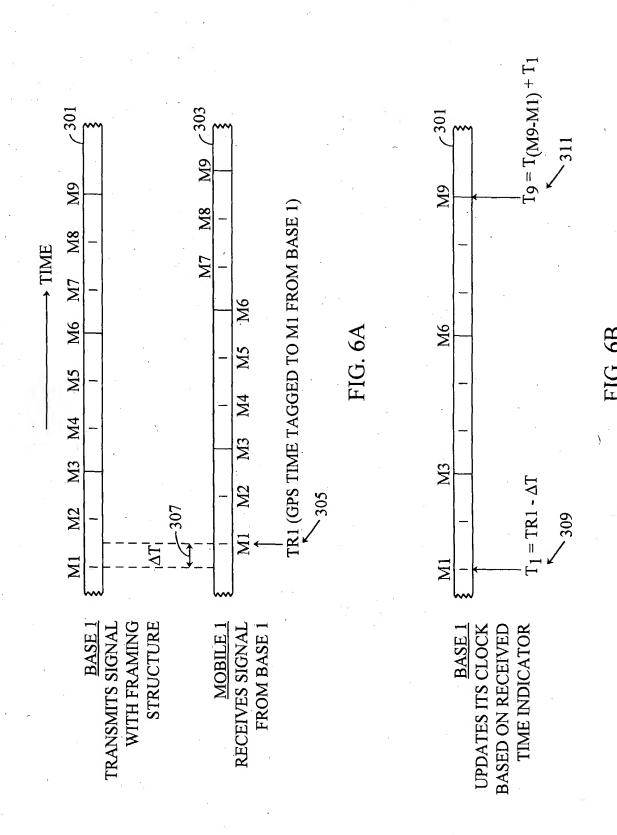
209

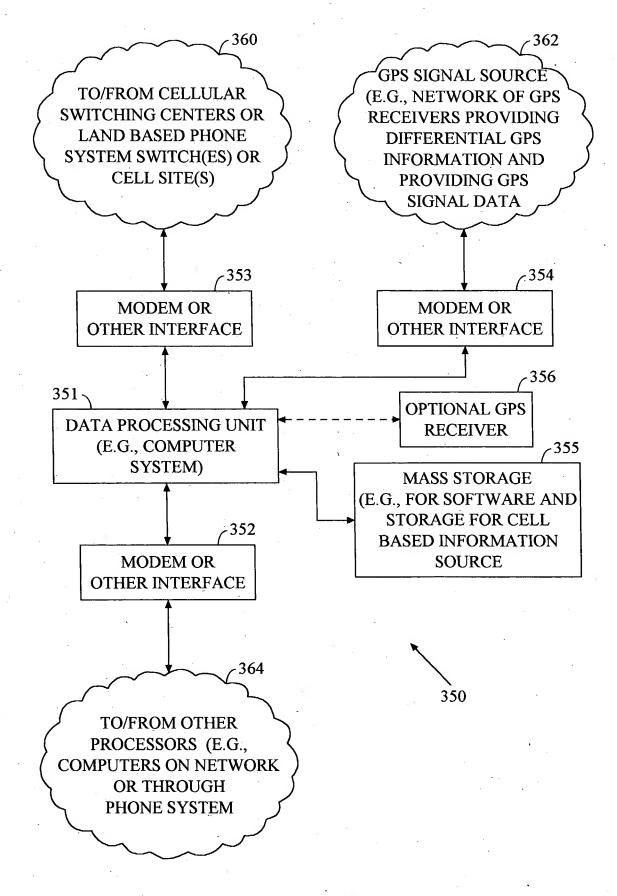
BASE STATION COMPUTES ITS TIME OF DAY BY USING POSITION OF MOBILE AND ITS KNOWN POSITION TO DETERMINE PROPOGATION DELAY (BETWEEN MOBILE AND BASE STATION) AND SUBTRACTS THE PROPOGATION DELAY FROM GPS TIME ASSOCIATED WITH MARKER TO DETERMINE GPS TIME AT ITS TRANSMITTED MARKER

TO FIG. 5B

CURRENT TIME AT CELLULAR BASE STATION IS UPDATED FROM GPS TIME AT ITS TRANSMITTED MARKER 213 SAVE LAST TIME THAT CLOCK AT CELLULAR BASE STATION WAS SYNCHRONIZED 215 DETERMINE WHEN TO SYNCHRONIZE AGAIN CLOCK

AT CELLULAR BASE STATION





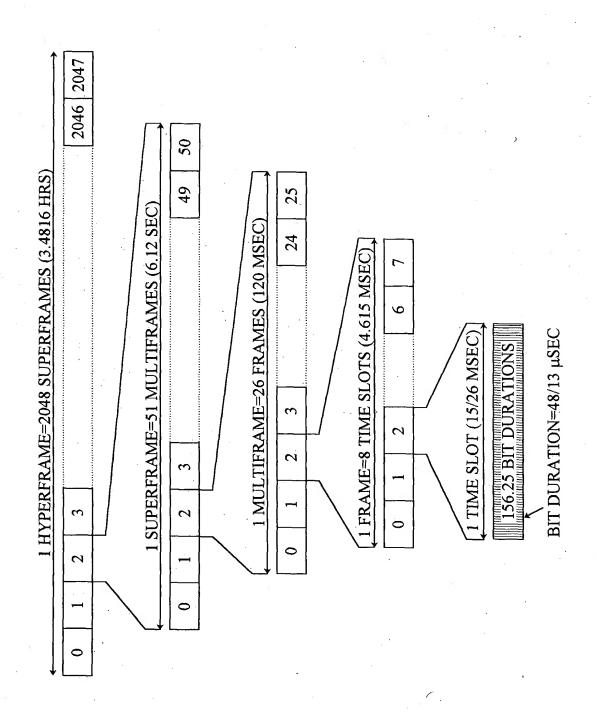


FIG. 8